

AQUACIDE QLF

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	HMIS CODES
Aquacide QLF Algaecide	Health 1
PRODUCT CODES	Flammability 0
QLF/1, QLF/5, QLF/20	Reactivity 0
CHEMICAL FAMILY	PPI B
Organic/Inorganic	
USE	
Industrial water & swimming pool algaecide	
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
Greenleaf Solutions Ltd	Poisons Information Centre
PO Box 64-125	New Zealand 0800-764-766
Botany, Auckland NZ 1703	Australia 13-1126
DATE OF PREPARATION	TECHNICAL SERVICE TELEPHONE NO.
15 th December, 2012	0064-9-272 4141

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
10.00	68424-95-3	Di-N-alkyl(C8-10)dimethylammonium chloride	
Balance		water	

Section 3 -- HAZARDS IDENTIFICATION 6.1C, 6.5A, 6.5B, 6.9B, 8.2C, 8.3A, 9.1A, 9.3B

DANGER- Toxic if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled; May cause an allergic skin reaction. May cause damage to organs; Causes severe skin burns and eye damage; Very toxic to aquatic life; Toxic to terrestrial vertebrates.

Section 4 -- FIRST AID MEASURES

If INHALED:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on SKIN:	Immediately wash with soap and water. Remove and wash any contaminated clothing.
If in EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If SWALLOWED:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
None	N/D	N/D

EXTINGUISHING MEDIA

Non-flammable. Use agents appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section 10).

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use absorbent materials to prevent footing hazard and to contain. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): None required.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: N/A

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Plastic apron and sleeves.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area.

Laundry contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	>212 F (100 C) @ 760mm Hg
SPECIFIC GRAVITY (H2O = 1):	1.00
VAPOR PRESSURE (mm Hg):	N/D
MELTING POINT:	N/A
VAPOR DENSITY (AIR = 1):	N/D
EVAPORATION RATE (ETHYL ACETATE = 1):	N/D
APPEARANCE/ODOR:	Blue Liquid / Mild Odour
SOLUBILITY IN WATER:	Soluble

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

Ingredient Name

Di-N-alkyl(C8-10)dimethylammonium chloride

Oral-Rat LD50:240 mg/kg

Inhalation-Rat LC50:N/D

-eye irritation (rabbit): non-irritant (primary irritation index = 0.0)

-skin irritation (rabbit): non-irritant (primary irritation index = 0.0)

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 Section 12 -- Ecological Information

ECOLOGICAL DATA
 Ingredient Name

Di-N-alkyl(C8-10)dimethylammonium chloride		
	Food Chain Concentration Potential	None
	WATERFOWL TOXICITY	None
	BOD	None
	AQUATIC TOXICITY	None

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 Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated liquid waste.
 Disposal Method: Dispose of in accordance with local, state and federal regulations.

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 Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-regulated
 OCEAN (IMDG): Non-regulated
 AIR (IATA): Non-regulated
 WHMIS (CANADA): Non-regulated

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 Section 15 -- REGULATORY INFORMATION

HSNO Approval Number: HSR006501

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 Section 16 -- OTHER INFORMATION

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.